

Lima Locomotive Works Incorporated

LIMA, OHIO, U. S. A.

Locomotive Tender *New York Central* CARD INDEX

Class 10000 Gal. 8-Wheel.

Dept. Engineering

ORDER No.	SHOP NUMBERS	DATE	DRAUGHTSMAN
C. O. 1140	7671-7720	4- 1937	U-3-K.
		19	
		19	
		19	
		19	

ADDITIONS AND CHANGES

ADDITIONS TO BE MADE IN BLACK INK AND CHANGES IN RED INK

Date	ITEMS	Check	Date	ITEMS	Check
1-31-36	7-46, 47, 48, 51, 53, 54, 55, 59, 61	✓			
1-5-37	5-38	✓			
1-5-37	11-56	✓			
1-6-37	9-44	✓			
1-7-37	5-38	✓			
1-7-37	12-33	✓			
1-9-37	10-47, 48, 49	✓			
1-9-37	11-34	✓			
1-9-37	3-31, 46, 47, 48	✓			
1-11-37	10-28, 55	✓			
" "	15-1	✓			
1-12-37	3-53	✓			
1-12-37	11-7	✓			
1-12-37	12-48	✓			
1-22-37	4-9	✓			
1-22-37	8-3	✓			
1-22-37	7-50	✓			
1-26-37	3-53	✓			
2-3-37	10-13	✓			
2-5-37	11-53, 54	✓			
2-12-37	15-16 to 36 inc.	✓			
2-12-37	3-56, 7, 8, 9	✓			
2-12-37	5-30	✓			
2-25-37	5-42	✓			
2-27-37	5-31	✓			
2-27-37	5-35, 36	✓			
3-2-37	2-30, 31, 32, 33	✓			
3-18-37	3-10	✓			
3-20-37	10-26	✓			
3-23-37	11-41	✓			
3-24-37	11-48	✓			

the receipt of your letter of
transmission, and to advise
you to supply with the order
obtaining in accordance with your
to us.

A. J. TOWNSEND

Mechanical Engineer

- Rigging, Drawhead F. and B.
- 87 Tender Deck, Tool Box, Water Cooler.
- 88 Tender Tank—Water and Oil, Coal Gate, Coal Pusher,
Filling Hole and Tank Funnel.
- 89 Tender Truck, Bolster and Guides, Spring Seats and
Plank.
- 90 Tender Water Scoop—Arrangements and Details.
Tires—See 95.
Tool Boxes—See 87.
- 95 Wheels and Tires.
- 97 Preliminary Designs and Propositions.
- 98 Clearances and Wheel Base Diagrams.
- 99 Miscellaneous.

2 copies made 4-37 for NYC RR -
1 Type copy - " " " "

LIMA LOCOMOTIVE WORKS, INCORPORATED

ORDER No. 1115

ENGINEERING DEPARTMENT

CALCULATIONS

MADE BY

R.S. 8/16/29

CHECKED BY

ELEVATION MAN

TENDER SPRINGS

ESTIMATED WEIGHT OF TENDER = 187,800 #
 MAX. REAR TRUCK = 94,400 #

SPRINGS TO LIMA CARD 762-A-191

3 double elliptic springs each rest, 2 rests per truck
 springs 9 plates $4\frac{1}{2} \times \frac{7}{16}$ - 26" dia.

$393 \times 9 \times 4\frac{1}{2} \times 3 = 47,700$ # capacity each rest
 47,700

95,400 # spring capacity each truck

DEAD WTS.
 WHEELS - 400
 AXLES - 1700
 BOXES - 600
 SPRING PLATES - 100
 7100

94,400
 7100
 87,300 load on 2 rests

$\frac{95,400}{87,300} = 109\%$ (Capacity % of load)

ND CHANGES

BLACK INK AND CHANGES IN RED INK

Date

ITEMS

Check

- 86 Tender Drawgear—Buffer, Chafing Plate, Coupler and Rigging, Drawhead F. and B.
- 87 Tender Deck, Tool Box, Water Cooler.
- 88 Tender Tank—Water and Oil, Coal Gate, Coal Pusher, Filling Hole and Tank Funnel.
- 89 Tender Truck, Bolster and Guides, Spring Seats and Plank.
- 90 Tender Water Scoop—Arrangements and Details.
Tires—See 95.
Tool Boxes—See 87.
- 95 Wheels and Tires.
- 97 Preliminary Designs and Propositions.
- 98 Clearances and Wheel Base Diagrams.
- 99 Miscellaneous.

2 copies made 4-39 for NYC RR -
 1 Type copy - " " " "

1140

[illegible]

SCHEDULE	DATE	DATE	Item	TITLE	No.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
					Pcs.	Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 49—GAUGES, TEMPLATES & JIGS								
			1									
			2									
			3									
			4									
0	2/10		5	Group 53 Handrail & Steps								
0	2/10		6	Steps, Back	2	863 A 96	4 Tenders	Wood. Matl. Ord	—	—	—	—
0	2/10		7	Back Step Hanger. Outside	2	"	4 "	53 C-48	—	—	—	—
0	2/10		8	" " Inside	2	"	4 "	53 D-108	—	—	—	—
0	2/10		9	" " Risers	2	"	4 "	1/2"x2"x23"	—	—	—	—
0	2/10		10	Bumper Handle Complete with Brace	1	"	4 "	53 A-337	—	—	—	—
			11									
			12									
			13									
			14									
			15									
			16									
			17									
			18									
			19									
			20									
			21	GROUP 53—HANDRAIL AND STEPS	—							
			22	Handrail	—							
			23	"	—							
			24	" Column	—							
			25	" "	—							
			26	" "	—							
			27	" Ball	—							
			28	" Flange	—							
			29	" "	—							
			30									
0	12/18	1/7	31	Bumper Handle Complete with Brace	1	863 A 95	46 Tenders	53 A 337	—	—	—	—
			32	" "								
0	12/17	1/7	33	Tank "	R 1	532 C-567	—	532 C-567	—	—	—	—
0	12/17	1/7	34	" " Front Leg	R 1	532 D-567	—	532 D-567	—	—	—	—
			35	" "								
			36	" "								
			37									
			38									
			39									
			40									
			41									
			42									
0	12/17	1/7	43	Steps—Front	2	532 A 3	—	—	53-154	—	—	—
			44	Front Step Hanger								
			45	" " Brace								
0	12/17	1/7	46	Steps—Back	2	863 A 95	46 Tenders	Wood. Ord	—	—	—	—
0	12/17	1/7	47	Back Step Hanger, Outside	2	"	46 Tenders	53 C-48	—	—	—	—
0	12/17	1/7	48	" " Back Hanger, Inside	2	"	46 Tenders	53 D-108	—	—	—	—
			49	Tank Step								
			50	" "								
0	12/17	1/7	51	Tank Ladder—Outside	1	532 A 590	—	532 A 590	—	—	—	—
			52	" " —Inside								
0	12/17	1/7	53	Back Step Risers	2	863 A 95	1/2"x2"x23" steel	46 Tenders				
			54									
			55									
			56									
			57									
			58									
			59									
			60									
			61									

SCHEDULE DEPT.				DATE SENT		DATE APPROVED		Page 4							LED 32-4												
Item								TITLE		No.		DRAWING		FORGINGS		CASTINGS—PATTERN NUMBERS											
										Pes.		Card No.		Construct'n Notes		Sketch No.		Cast Iron		Cast Steel		Brass		Mal. Iron			
								GROUP 54—HEADLIGHTS AND SIGNAL ATTACHMENTS																			
1								Signal Fixtures—Location																			
D 12-17								2		542 B-256		—		—		—		—		54-14		—		—		—	
D 12-17								3		542 A-339		—		—		—		—		54-1		—		—		—	
4								Lamp Bracket																			
5								" Hook																			
6								Pail Hook																			
7								Headlight Bracket																			
8								" Shelf																			
9								Electric Wiring		N.Y.C. Print 8074 E		Matl. Ord		—		—		—		—		—		—		—	
10								License Plate																			
11								Ownership Plate																			
12								Patent "																			
D 12-17								13		542 D-124		—		542 D-124		—		—		—		—		—		—	
D 12-17								14		542 N-124		—		542 N-124		—		—		—		—		—		—	
D 12-17								15		542 P-124		Welded to Tank		542 P-124		—		—		—		—		—		—	
D 12-17								16		542 B-370		—		542 B-370		—		—		—		—		—		—	
17																											
18																											
19																											
20																											
21								GROUP 57—LAGGING AND JACKET																			
22								Steam Pipe Lagging																			
23								" " "																			
24								" " Jacket																			
25																											
26																											
27																											
28																											
29																											
30																											
31																											
32																											
33								GROUP 59—OIL AND GREASE CUPS																			
34								Truck Oil Cup																			
35								" " " Cap																			
36																											
37								Stoker Oil Cup																			
38								" " " Cap																			
39																											
40																											
41																											
42																											
43																											
44																											
45																											
46																											
47																											
48																											
49								GROUP 61—PA'TING, LET'RING & NUM'G																			
50								Tender Lettering																			
51																											
52																											
53																											
54																											
55																											
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57																											
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59																											
60																											
61																											

SCHEDULE	CHECK DATE	DATE	Item	TITLE	No.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
					Pes.	Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 62—PILOT AND SNOW PLOW								
			1	Pilot								
			2	" Band								
			3	" Brace								
			4	" "								
			5	" Bottom Plate								
			6	" Bracket								
			7	" Corner Iron								
			8	" Knee								
			9									
			10									
			11									
			12									
			13	Snow Plow								
			14									
			15									
			16									
			17									
			18									
			19									
			20									
			21	GROUP 63—PIPE FITTINGS AND CLAMPS								
			22	Box Cooler Hose								
			23	" " Fitting								
			24	" " " Nut								
			25	" " " Swivel								
D	12-70	12-17	26	Pipe Clamp. U. Bolt	1	648 D-11	—	63 N-33	—	—	—	—
D	"	12-17	27	" " 1 1/2"	2	"	—	63 B-63	—	—	—	—
D	"	12-17	28	Pipe Clamp 3/4"	1	"	—	63-C-63	—	—	—	—
D	"	12-17	29	" " 3/2 1/4"	1	"	—	63 A-64	—	—	—	—
D	"	12-17	30	" "	2	"	—	63 E-63	—	—	—	—
D	"	12-17	31	" "	2	648 A-48	—	63 M-63	—	—	—	—
D	"	12-17	32	" Hanger	2	648 D-11	—	63 N-28	—	—	—	—
D	"	12-17	33	" "	1	"	—	63 P-28	—	—	—	—
D	"	12-17	34	" "	1	"	—	63 R-28	—	—	—	—
			35	" # Clamp Filler Block	2	648 A 48	7/8 x 2" x 2 3/4"	—	—	—	—	—
			36	" Manifold Air Brake	1	"	5/8" x 2" x 2 1/2"	—	—	—	—	—
D	12-70	12-17	37	" Angle Cock Holder	1	648-D-11	—	63-A-243	—	—	—	—
D	"	12-17	38	" Manifold Support	1	642 B-131	5"x3"x 1/2" Angle R.S. only	—	—	—	—	—
			39	" " "								
			40									
			41	Water Joint Support								
D	12-70	12-17	42	Pipe Clamp (Sprinkler)	2	648 A 48	—	63 D-96	—	—	—	—
D	"	12-17	43	" " (")	2	"	—	63 A-25	—	—	—	—
D	"	12-17	44	" Hanger (")	2	"	2 1/2 x 2 1/2 x 3/8" Angle	—	—	—	—	—
D	"	12-17	45	" " (")	2	"	—	63 A 24	—	—	—	—
D	"	12-17	46	Sprinkler Hose	1	"	3/8" I.D. 96" Long ord	—	—	—	—	—
D	"	12-17	47	" " coupling	1	"	—	—	—	—	Stock	—
D	"	12-17	48	Pipe Clamp	1	"	—	63 A 40	—	—	—	—
			49									
			50	GROUP 64—PIPING ARRANGEMENTS								
D	12-70	12-17	51	Piping Arrangement Air Brake		648 D-11	style 3	—	—	—	—	—
			52									
D	12-70	12-17	53	Sprinkler Piping		648 A 48	F.R.S G-2122xH.	—	—	—	—	—
D	"	12-17	54	" Pipe Flange	1	642 A 85	—	—	64-1	—	—	— 12-78 1/2
			55	Steam Heat Piping								
			56									
			57	Coal Pusher Piping								
			58									
			59									
			60									
			61									

SCHEDULE DEPT
DATE SENT
DATE APPROVED

Item	TITLE	No. Pcs.	DRAWING		FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS			
			Card No.	Construct'n Notes		Cast Iron	Cast Steel	Brass	Mal. Iron
	GROUP 66—PLUGS, HANDHOLES AND WASHOUTS								
1									
2									
3									
4									
5									
6									
7									
8									
9	GROUP 71—RUN'G BOARDS & BRACK'TS								
10	Running Board								
11	" "								
12	" " Bracket								
13	" " "								
14	" " "								
15	" " "								
16									
17									
18									
19									
20									
21	GROUP 73—SAND BOX AND RIGGING								
22	Sand Box								
23	" " Brace								
24	" " Handle								
25									
26									
27									
28									
29	GROUP 76—SPRINGS								
30	Truck Spring	4	762 A-191	old					
31	" " Marking		762 A 190						
32	" " Clip								
33	" " End Block								
34	Buffer Spring								
35	Coupler Spring								
36	Draw Spring								
37	" "								
38	Water Scoop Spring								
39	" " "								
40	Brake Beam Leveling Spring								
41									
42									
43									
44									
45									
46	GROUP 80—STOKER AND DETAILS								
47									
48									
49									
50									
51									
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53									
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61									

SCHEDULE	DATE	DATE	Item	TITLE	No.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
					Pcs.	Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 80—STOKER AND DETAILS (Cont.)								
			1									
			2									
			3									
			4									
			5									
			6									
			7									
			8									
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			40									
			41									
			42									
			43									
			44	GROUP 82—TANK VALVES AND COCKS								
D	12-10-17	x	45	Tank Valve	2	822 B-114	—	—	—	—	82-464	—
D	12-10-17	✓	46	" " Body Drain Plug	4	822 A 204	—	—	—	—	Stick	—
D	12-10-17	✓	47	" " Seat	2	822 A 205	—	—	—	—	82-511	—
D	12-10-17	✓	48	" " Shift Handle Stop	4	822 A 206	Turned From 7/8" Dia. Bar.	—	—	—	—	—
D	12-10-17	x	49	" " Hose Clamp	2	822 A 145	—	—	—	82-463	—	—
D	12-10-17	✓	50	" " Rod	2	822 A-210	—	822 A 210	—	—	—	—
D	12-10-17	✓	51	" " Arrangement		822 A-207	—	—	—	—	—	—
D	12-10-17	x	52	" " Handle	2	822 A-54	—	—	—	82-183	—	—
D	12-10-17	✓	53	" " Gland	2	822 A 206	—	—	—	—	82-176	—
D	12-10-17	✓	54	" " Goose Neck	2	822 A 204	—	—	—	82-510	—	—
D	12-10-17	✓	55	" " " Ring	2	" "	—	—	—	—	82-180	—
D	12-10-17	x	56	" " Sleeve	2	822 D-5	—	—	—	—	82-182	—
D	12-10-17	x	57	" " Hose Nut	2	822 E-35	—	—	—	—	55-19	—
			58	" " " Swivel								
D	12-10-17	✓	59	Tank Valve Flange Top	2	822 A 206	—	—	82-512	—	—	—
			60	" " "								
D	12-10-17	✓	61	" " Strainer	2	822 A 207	Sheet Copper #18 BWG and Paneked to Cd 822 B-6	—	—	—	—	—
				(Group 82 Continued)								

SCHEDULE DEPT		DATE SENT		DATE APPROVED		Page 8		LED 32-8			
Item	TITLE	No.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS					
			Pes.	Card No.		Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
GROUP 82—TANK VAL. AND COCKS (Cont.)											
D. 12-17	1 Tank Well	2	822 A 53	3/8" Plate Flanged	—	—	—	—	—		
	2 " " Plug				—	—	—	—	—		
	3 " " Valve Rod Pin	2	822 A 207	—	82 A 50	—	—	—	—		
	4 " " Pipe Support										
D. 12-17	5 " " Gauge Cock Body	3	822 A 143	—	—	—	—	82-462	—		
D. 12-17	6 " " Plug	3	"	—	—	—	—	82-461	—		
D. 12-17	7 " " Nut	3	"	—	—	—	—	1/2 Hex	—		
D. 12-17	8 " " Washer	3	"	—	—	—	—	Stick	—		
	9 Oil Tank Plug										
	10 " " Valve										
	11 " " " Seat										
	12 " " " Rod										
	13 " " " Arm										
	14 " " " Gland										
	15 " " " "										
	16 " " " Nut										
	17 " " " Sleeve										
	18 " " " Drain										
	19 " " " " Seat										
	20 " " " Stuffing Box										
	21 " " " " " Nut										
	22 " " " " " Gland										
	23 " " " Rod End										
	24 " " Measuring Rod										
	25 Oil Tank Cock										
	26 " " " Cap										
	27 " " " Plug										
	28 " " " Nut										
	29 " " " Washer										
	30 " " " Handle										
	31 Tank Cock										
	32 " " Plug										
	33 " " Nut										
	34 " " Washer										
	35 " " Handle										
	36 " " Flange										
	37 " " Rod										
	38 " " Stuffing Box										
	39 " " " " Gland										
	40 " " " " Nut										
	41 Box Cooler Valve										
	42 " " " Cap										
	43 " " " Stem										
	44 " " " Gland										
	45 " " " Nut										
	46 " " " Handle										
	47 " " " Coupling Nut										
	48 " " " Swivel										
	49										
	50 GROUP 84—TENDER BRAKE										
D. 12-17	51 Frame Body Brake Arrangement		859 A 89	—	—	—	—	—	—		
D. 12-17	52 Body Brake Lever	2	"	—	84 B-8	—	—	—	—		
	53 " " "										
D. 12-17	54 " " " Support	3	"	—	84 K-4	—	—	—	—		
	55 " " " "										
D. 12-17	56 " " Connecting Rod Cyl	1	"	—	84 A 6	—	—	—	—		
D. 12-17	57 " " " " Tr	1	"	—	84 A 5	—	—	—	—		
	58 " " Equalizer	—									
	59 " " Fulerum	—									
	60 " " Rod	—									
	61 " " Clevis	—									
(Group 84 Continued)											

SCHEDULE	DATE	DATE	Item	TITLE	No.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS				
					Pes.	Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron	
				GROUP 84—TENDER BRAKE (Cont.)									
			1	Body Brake Sheave									
			2	" " " Support									
			3	" " Shaft									
			4	" " " Cap									
			5	" " " Hanger									
			6	" " " Step									
			7	" " " Wheel									
			8	" " " Handle									
			9	" " " Pawl									
			10	" " " " Plate									
			11	" " " Ratchet									
			12	" " " Weight									
D	12-10	12-17	X 13	" " Cylinder	1	859 A 39	14"x12" ord	—	—	—	—	—	—
			14	" " " Head									
			15	" " " "									
			16	" " " Support									
D	12-10	12-17	X 17	" " Pins Tr. Conn	2	842 A 38	—	—	—	—	—	—	—
D	"	12-17	X 18	" " " Push Rod	1	842 B-38	—	—	—	—	—	—	—
D	"	12-17	X 19	" " " Cy/ "	2	842 F-38	—	—	—	—	—	—	—
D	"	12-17	X 20	" " " " Ful	1	842 Z-37	—	—	—	—	—	—	—
			21	Tender Brake Piston									
			22	" " " Follower									
			23	" " " Ring									
D	12-10	12-17	X 24	" " " Rod	1	842 K-36	—	842 K-36	—	—	—	—	—
			25	Brake Reservoir Hanger									
			26	" " " Strap									
			27	Hand Brake Arrangement									
			28	" " " Rod									
			29										
			30										
			31										
			32										
			33										
			34										
D	12-10	12-17	X 35	Truck Brake		894 A 12	—	—	—	—	—	—	—
D	"	12-17	X 36	" " Beam	R 2	"	Buffalo # 8-946 ord	—	—	—	—	—	—
			37	" "									
			38	" "									
D	12-10	12-17	X 39	" " " Support	8	842 A 2	—	842 A 2	—	—	—	—	—
D	"	12-17	X 40	" " " Safety Chain	4	894 A 12	1/2" Chain Ord	84 A 125	—	—	—	—	—
D	"	12-17	X 41	" " " " Bar	4	"	3"x3"x3/8" Angle	—	—	—	—	—	—
			42	" " " Leveling Eyebolt									
	12		43	" " Head									
	12-10	12-17	44	" " Shoe	8	A.B.S. & Fdry Co ord	—	—	—	—	—	—	—
	"		45	" " " Key	8	A A R Std	ord	—	—	—	—	—	—
D	"	12-17	X 46	" " Beam Safety Support	R 2	894 A 12	—	84 A-108	—	—	—	—	—
D	"	12-17	X 47	" " Lever	2	842 A-19	—	842 A 19	—	—	—	—	—
			48	" " " Guide									
D	"	12-17	X 49	" " Dead Lever	2	842 A 19	—	842 A-19	—	—	—	—	—
D	"	12-17	X 50	" " " " Anchor	2	894 A 12	—	84 A 3	—	—	—	—	—
D	"	12-17	X 51	" " " " " Lug	R 1	"	ASFPWts 7091 7734 ord	—	—	—	—	—	—
D	"	12-17	X 52	" " Lever Rod	2	842 C-89	—	842 C-89	—	—	—	—	—
			53	" " " "									
D	"	12-17	X 54	" " Pins Brake Beam Support	8	894 A 12	—	84 A 42	—	—	—	—	—
D	"	12-17	X 55	" " " Dead Lever	8	842 A 38	—	—	—	—	—	—	—
D	"	12-17	X 56	" " " Tr. Conn	2	842 K-38	—	—	—	—	—	—	—
D	"	12-17	X 57	" " " Bottom Rod	4	842 D-37	—	—	—	—	—	—	—
D	"	12-17	X 58	" " " Br Beam Ful	4	842 Y-37	—	—	—	—	—	—	—
D	"	12-17	X 59	" " " Safety Chain	4	842 R-38	—	—	—	—	—	—	—
			60										
			61										

SCHEDULE DEPT.
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1140

SCHEDULE	DATE	CHECK	DATE	Item	TITLE	No.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
						Pcs.	Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
					GROUP 85—TENDER FRAME								
B	12-12-17			1	Frame	1	859 A 39	45C # 21413	12/9	—	—	—	—
				2	" Center Sill								
				3	" Side Sill								
				4	" End Sill								
				5	" Corner Angle								
				6	" " Bracket								
				7	" " Knee								
				8	" Brace								
				9	" "								
				10	" "								
				11	" Filling								
				12	" "								
D	12-12-17			13	" Tank stop	2	852 C-66	—	—	85-117	85-117	—	—
				14	" Bolster								
				15	" " Angle								
				16	" " Plate								
				17	" " Truss Bar								
				18	" " " Brace								
				19	" " " Plate								
				20	" "								
				21	" " Tie Plate								
D	12-12-17			22	" Center Plate	2	859 A 39	45C 4201634	12/9	—	—	—	—
D	12-12-17			23	" Side Bearing	4	852 B-64	—	—	—	85-118	—	—
				24	" " "								
D	12-12-17			25	Push Pole	1	852 B-65	Douglas Fir ord	—	—	—	—	—
				26	" " Collars	2	"	—	—	—	85-119	—	—
D	12-12-17			27	" " " stop	1	852 A 44	—	—	—	85-18	—	—
				28	" " Support	2	859 A-39	—	4605-200	—	85-19	—	—
				29	" " Stop								
D	12-12-17			30	Wrecking Frog Brackets	4	859 A 39	—	85-B-50	—	—	—	—
				31	Switch Rope Hooks								
				32	Check Chain								
				33	" " Pocket								
				34	" " Hook								
D	12-12-17			35	Tender Floor	1	859 A 39	1 3/4" x 10" Yellow Pine ord	—	—	—	—	—
D	12-12-17			36	" " Edge	2	"	1 3/4" x 1 3/4" x 1/2" Angle ord	—	—	—	—	—
				37	Bumper—Front								
				38	" —Back								
				39	Tender Floor Anchor								
				40									
				41									
				42									
				43									
				44									
				45									
				46									
	12-12-17			47	GROUP 86—TENDER DRAWGEAR		863 A 95	46 Tenders	—	—	—	—	—
	12-12-17			48	Coupler	1	"	46 Tenders	N.M.C. Pt # 24532 ord	—	—	—	—
	12-12-17			49	" Pocket	1	"	46 "	" Pt # 20778-A ord	—	—	—	—
				50	" Followers								
				51	" Yoke								
				52	" " Filler								
				53	" Follower Guide								
				54	" Carry Iron								
	12-12-17			55	" Chain	1	863 A 95	46 Tenders	N.M.C. # 1470 A ord	—	—	—	—
				56	" " Clevis								
D	12-12-17			57	Drawbar Pin	1	862 A 2	—	862 A 2	—	—	—	—
D	12-12-17			58	" " Support	1	372 A 10	—	372 A 10	—	—	—	—
				59	Safety Chain Pin								
				60	Draft Gear Cheek Casting								
				61	" " Key								
					(Group 86 Continued)								

(Group 86 Continued)

SCHEDULE	DATE	CHECK	DATE	Item	TITLE	No.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
							Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
					GROUP 86—TENDER DRAWGEAR (Cont.)								
				1	Draft Gear Carrier	—							
				2	Drawhead Brace	—							
	12/18	12/17		3	Uncoupling Shaft R.S.	1	863 A 95	46 Tenders	86 A-135	—	—	—	—
	12/18	12/17		4	" " Arm L.S.	1	"	46 Tenders	86 A-136	—	—	—	—
P	12/18	12/17		5	" " Bracket	4	372 A 433	46 Tenders	—	—	37-436	—	—
P	12/18	12/17		6	" " "	1	372 B-433	46 Tenders	—	—	37-437	—	—
	12/18	12/17		7	" " Handle Arm.	1	863 A 95	46 Tenders	86 A-137	—	—	—	—
				8	" " Cap								
				9	" " L.S.								
				10	Draw Casting—Front								
				11	" " —Back								
				12	Safety Chain								
				13	" " Clevis								
				14	" " Staple								
				15	" " Washer								
				16									
D	12/18	12/23		17	Chafing Casting	1		Franklin Pt C-47903					
				18	" Iron								
				19	Spring Buffer								
				20	" " Case								
	1/11	1/14		21	Uncoupling Shaft Handle	2	882 A 64	4 Tenders	—	—	88-124	—	—
	1/11	1/14		22	" " Rod	2	"	4 Tenders	—	—	88-124	—	—
				23									
				24	For Drawgear & Rear End								
				25	Arrgt For 4 Tenders								
				26	See Page 15								
				27									
				28									
				29									
				30									
				31									
				32									
				33									
				34	GROUP 87—TENDER DECK AND TOOL BOX								
D	12/10	12/15		35	Tender Deck	1	872 B-52	Angles, Plate, ord	—	—	—	—	—
D	"	"		36	" " Shovel Plate	1	"	ord	—	—	—	—	—
D	"	"		37	" " Support, Outside	1	"	3/8" Plate	—	—	—	—	—
D	"	"		38	" " " Inside	1	"	3/8" Plate	—	—	—	—	—
				39									
				40									
D	12/10	12/11		41	Tool Box	2	872 A 2	Wood With Hinges & Hasp, ord	—	—	—	—	—
				42	" "								
				43	" " Handle								
				44	" " "								
				45	" " Brace								
				46	" " "								
D	12/10	12/15		47	" Closet Eyebolt	2	889 B-45	—	88A-196	—	—	—	—
P				48	" Closet Hinge Hasp Pin	2	"	—	87A7	—	—	—	—
				49	" " " Lug	—							
				50									
				51									
				52									
	1/28	2/2		53	Water Cooler	1	872 A 67	Wood, with Hinges & Handles Ord	—	—	—	—	—
P	1/28	2/2		54	" " Base Inside Tank	1	872 A 68	Galv. Iron ord Complete on P.D.	—	—	—	—	—
				55	" " Top Arrangement		872 A 70	—	—	—	—	—	—
				56	" " Lid								
				57	" " Casing								
				58	" " Cock								
				59									
				60									
				61									

SCHEDULE DEPT
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SCHED DATE DATE	Item	TITLE	No. Pes.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 88—TENDER TANK								
D 12/10/12	x 1	Tank—Water	1	889 B-45	10000 Gallon	—	—	—	—	—
D " " "	x 2	" Material Bill		88 MO-103-c	—	—	—	—	—	—
D " " "	x 3	" ~~Base~~ Washout Plugs	3	889 B-45	Huron. ord	—	—	—	—	—
D " " "	x 4	" ~~Base~~ " " Liners	3	"	6"x6"x1" Tapped to Suit Plugs & Welded on Bottom of Tank	—	—	—	—	—
	5	" Lifter Iron	—							
D " " "	x 6	" Drain Pipe	2	"	4" Ex. Hvy Pipe ord	—	—	—	—	—
D " " "	x 7	" " " Flange	2	"	8"x8"x1" Soft Steel, Welded to Tank	—	—	—	—	—
D " " "	x 8	" " " "	2	"	4" Com. Pipe Flange ord	—	—	—	—	—
D " " "	x 9	" ~~Fuel Tank~~ Tool Hook	1	"	—	88 A 94	—	—	—	—
	10	" Tool Hook								
D 12/10/17	x 11	" Lug	6	882 A-3	—	882 A-3	—	—	—	—
	12	" "								
D 12/10/17	x 13	" Funnel	1	882 D-69	1/4" plate ord	—	—	—	—	—
D " 12/17	x 14	" " Lid	1	"	3/16" " ord	—	—	—	—	—
D " 12/17	x 15	" " Hinge	2	882 B-68	—	—	—	88-94	—	—
D " 12/17	x 16	" " " Lug	2	882 B-40	—	—	—	88-40	—	—
D " 12/17	x 17	" " Handle	1	882 A 1	—	—	—	88-8	—	—
D " 12/17	x 18	" ~~Screen~~ Screen	1	882 A-103	Draftac #393 ord	—	—	—	—	—
D " 12/17	x 19	" Coal Gate	1	883 A 53	Wood & Plate	—	—	—	—	—
D " 12/17	x 20	Coal Gate Angle	2	"	2 1/2"x 2 1/2"x 3/8" Angle	—	—	—	—	—
D " 12/17	x 21	" " ~~Coal~~ Pocket	8	882 B-7	Drilling Style 1	—	—	88-30	—	—
D " 12/17	x 22	" " ~~Latch~~ " R	1	882 D-7	" " 3	—	—	88-30	—	—
D " 12/17	x 23	" " ~~Handle~~ " L	2	882 B-7	—	—	—	88-31	—	—
	24	" " " Lug								
	25	" " Chain								
	26	" " Eyebolt								
	27	" " Slide Clamp								
	28	" " Catch Bracket								
	29	" " Handle								
D 12/10/17	x 30	Tank Try Cock Pocket	3	882 A 104	1/4" Plate	—	—	—	—	—
	31	Tank Cut Out for Stoker								
D 12/10/15	x 32	Sprinkler Reservoir Bracket	1	889 B-45	—	63 B-119	—	—	—	—
P 12/15/15	x 33	Tank Rivet Material		88 MO-135						
	34	Tank—Oil								
	35	" Material Bill								
	36	" Brace								
	37	" Lifter Iron								
	38	" Lug								
	39	" "								
	40	" Funnel								
	41	" " Lid								
	42	" " Hinge								
	43	" " " Lug								
	44	" " Screw								
	45	" " Handle								
	46	" " Gasket								
	47	" " Screen								
P	48	Coal Curtain Fastener R	1	234 C-51	1/8" plate ord Bent & Welded to Tank	—	—	—	—	—
	49									
	50	Coal Pusher								
D 12/10/15	x 51	Tank Screen Door Latch	6	882 A 103	—	88 A 152	—	—	—	—
D " 12/15	x 52	" " " " Stop	6	"	—	88 A 153	—	—	—	—
D 12/15/15	x 53	Coal Pick & Shovel Hook	1	883 A 53	—	88 A 97	—	—	—	—
	54									
	55									
	56									
	57									
	58									
	59									
	60									
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SCHEDULE DEPT. DATE SENT DATE APPROVED	Item	TITLE	No.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS				
			Pes.	Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron	
		GROUP 89—TENDER TRUCK									
D 12-12-17	1	Truck 6"x11	2	894 A 12	Vulcan	—	—	—	—	—	
	2	" Arch Bar									
	3	" Truss Bar									
	4	" Tie Bar									
	5	" Columns									
	6	" "									
D 12-12-17	7	" Bolster	2	894 A 12	ASF-982) ord	—	—	—	—	—	
	8	" " Guide									
	9	" " Bar									
	10	" " Cap									
	11	" " Truss Rod									
	12	" " " " Washer									
D 12-12-17	13	" Center Plate	2	892 A 1	—	—	—	89-18	—	—	
D 12-12-17	14	" King Bolt	2	892 C 9	—	892 C-9	—	—	—	—	
D 12-12-17	15	" " " Keys	2	892 B-94	—	892 B-94	—	—	—	—	
D 12-12-17	16	" Spring Plank	2	892 B-109	3/8" Plate ord	—	—	—	—	—	
	17	" " Seat—Top	—								
D 12-12-17	18	" " " —Bottom	8	894 A 12	1/4" x 4" x 16 1/2" Plate	—	—	—	—	—	
	19	" " Hanger									
	20	" " "									
	21	" " " Gib									
D 12-12-17	22	" Side Bearing	4	892 A 129	7/16" Clearance Each Side Rear Front	—	—	89-229	—	—	
D 12-12-17	23	" " " Block	4	892 A 130	Shim for Clearance	—	—	89-228	—	—	
D 12-12-17	24	" Frame	4	894 A 12	ASF 8542 Kord	—	—	—	—	—	
	25	" " Brace									
	26	" " Crosstie									
	27	" Pedestal									
	28	" "									
	29	" " Cap									
	30	" " " Tie									
	31	" Equalizer									
	32	" "									
	33	" Swing Frame									
	34	" " Link									
	35	" " Pins									
D 12-12-17	36	" Check Chain	6	892 A 37	R. of Front Truck F&R of Rear "	892 A 37	—	—	—	—	
D 12-12-17	37	" " " Bolt	2	892 B-37	F&F Front "	892 B-37	—	—	—	—	
	38	" " " Clevis									
	39	" " " Pocket									
	40										
	41										
	42										
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Material Specifications

